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| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|---|------|-----|------|---|--|---------------------|----------|
| 1 | BRS | L1 | 113 | supervis\$3 same (learn\$3 or neural) same unsupervis\$3 same (group\$5 or cluster\$3) same (class\$9 or categor\$9) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:45 | |
| 2 | BRS | L3 | 2 | 2 same imag\$3 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 14:28 | |
| 3 | BRS | L2 | 24 | 1 same (probabilit\$3 or likelihood or possibilit\$3) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 14:31 | |

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|---|------|-----|------|---|--|---------------------|----------|
| 4 | BRS | L4 | 3 | supervis\$3 same (probabilit\$3 or likelihood or possibilit\$3) same map same learn\$3 same class\$9 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 14:35 | |
| 5 | BRS | L5 | 1233 | ((probabilit\$3 or likelihood or possibilit\$3) near\$3 map) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 14:50 | |
| 6 | BRS | L6 | 83 | ((probabilit\$3 or likelihood or possibilit\$3) near\$3 map) same class\$9 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 14:36 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|---|------|-----|------|--|--|---------------------|----------|
| 7 | BRS | L7 | 16 | 6 same (cluster\$3 or group\$5 or categor\$9) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 14:36 | |
| 8 | BRS | L8 | 4 | 7 same imag\$3 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 14:38 | |
| 9 | BRS | L9 | 687 | unsupervis\$3 near\$3 learn\$3 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 14:38 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|--|--|---------------------|----------|
| 10 | BRS | L10 | 9 | 9 same ((cluster\$3 or group\$5) near\$5 imag\$3) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 14:48 | |
| 11 | BRS | L11 | 11 | supervis\$3 same (learn\$3 or neural) same unsupervis\$3 same (merg\$3 or combin\$5 or mix\$3) same image\$1 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 14:49 | |
| 12 | BRS | L12 | 2 | 11 and ((probabilit\$3 or likelihood or possibilit\$3) near\$3 map) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:11 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|---|--|---------------------|----------|
| 13 | BRS | L13 | 5 | 11 and semantic\$5 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:09 | |
| 14 | BRS | L14 | 5540 | (cluster\$3 or group\$5) with (class\$9 or categor\$9) with (combin\$9 or merg\$3 or mix\$3) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:11 | |
| 15 | BRS | L15 | 3 | 14 same ((probabilit\$3 or likelihood or possibilit\$3) near\$3 map) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:39 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|---|--|---------------------|----------|
| 16 | BRS | L16 | 4515 | ((probab\$8 or likelihood or possibilit\$3) near3 class\$9) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:40 | |
| 17 | BRS | L17 | 437 | 16 same (region\$1 or area\$1) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:40 | |
| 18 | BRS | L18 | 174 | 17 same imag\$3 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:41 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|--|--|---------------------|----------|
| 19 | BRS | L19 | 10 | 18 same map | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:44 | |
| 20 | BRS | L20 | 3317 | region\$1 near3 classif\$8 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:45 | |
| 21 | BRS | L21 | 3 | 20 same supervis\$3 same (learn\$3 or neural) same unsupervis\$3 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:49 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|---|--|---------------------|----------|
| 22 | BRS | L22 | 93 | (supervis\$5 adj learn\$3) and (unsupervis\$3 near3 learn\$3) and (color\$1 or textue\$1) and image\$1 and (group\$3 or cluster\$3) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:50 | |
| 23 | BRS | L23 | 313 | (supervis\$5 adj learn\$3) and (unsupervis\$3 near3 learn\$3) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:51 | |
| 24 | BRS | L24 | 163 | (supervis\$5 adj learn\$3) near10 (unsupervis\$3 near3 learn\$3) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:51 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|--|--|---------------------|----------|
| 25 | BRS | L25 | 57 | 22 and 24 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:51 | |
| 26 | BRS | L26 | 7 | ((supervis\$5 adj learn\$3) near10 (unsupervis\$3 near3 learn\$3) near10 (merg\$3 or link\$3 or associat\$5 or combin\$5)) | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:52 | |
| 27 | BRS | L27 | 1 | 22 and 26 | US- PGPUB; USPAT; EPO; JPO; DERWEN T | 2005/06/21 15:52 | |


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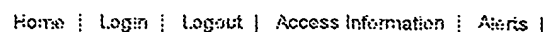
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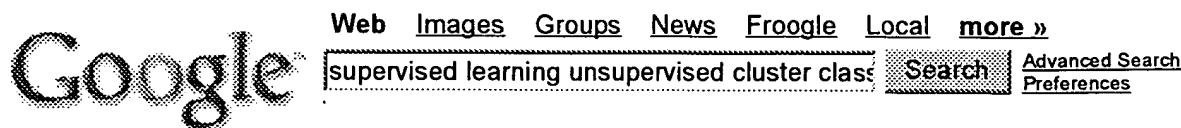
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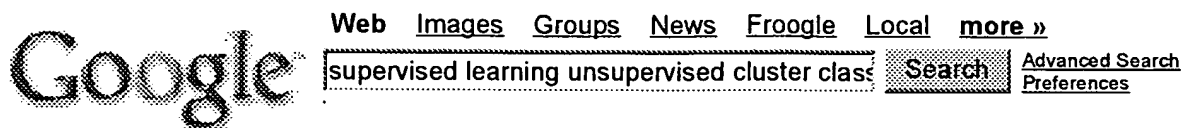
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Digital image classification uses the spectral information represented by the

digital ... Unsupervised classification in essence reverses the supervised ...

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By contrast with SUPERVISED LEARNING or REINFORCEMENT LEARNING, ... Unsupervised
learning of the means determines the clusters. Unsupervised learning of ...

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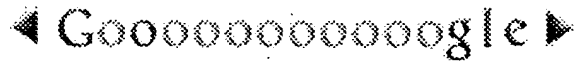
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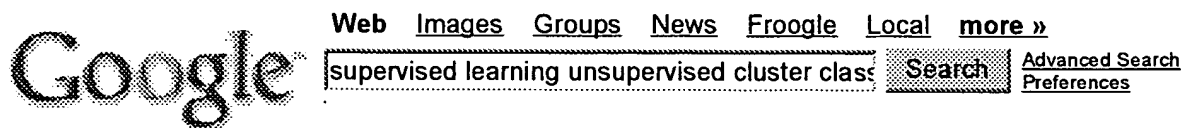


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In **unsupervised learning**, in contrast to **supervised learning**, ... a robust set of features on which the further processing (**classification**, **clustering**, etc. ...

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competitive **learning** network as applied to **unsupervised** ... widely used in **supervised image classification** of remotely. sensed data [10, 11]. ...

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the **unsupervised clustering** in the test image, which has to be. done online unlike the **supervised learning**. B. Results on Real Images ...

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Wooley abstract: Scaling Clustering for the Data Mining

Clustering is one form of **unsupervised learning** used in data mining. I am adapting a Meta **learning** approach, used to scale **supervised learning**, ...

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Face recognition using a hybrid **supervised/unsupervised** neural network. ...

Clustering unlabeled data with soms improves **classification** of labeled real-word ...

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The task of **supervised classification** is classifying new objects (or cases) into predefined ... In the case of **unsupervised classification** (or **clustering**), ...

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